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1. ☐ 1/9/1 (Item 1 from file: 123)

2843378

Status Changes:

REISSUE REQUESTED

Assignee:
Fujitsu Ltd JP

Patent	Issue
Number	Date
-----	-----

Patent:
US 5631612

19970520

Reissue Requested:

Request	Request	Recorded	Exam.	Reissue
Number	Date	in OG	Group	Patent No.
-----	-----	-----	-----	-----
09/314943	19990520	19990706	2817	
09/925942	20010810			
20011218	2817			

CLAIMS (R)/Current Legal Status (Dialog® File 123): (c) 2002 IFI/CLAIMS. All rights reserved.

2. ☐ 1/9/2 (Item 1 from file: 345)

11148362
Basic Patent (No,Kind,Date): EP 541284 A1 19930512

PATENT FAMILY:
GERMANY (DE)
Patent (No,Kind,Date): DE 69216769 C0 19970227
AKUSTISCHER OBERFLAECHEWELLENFILTER (German)

1 of 12

4/2/02 1:47 PM

Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): DE 69216769 A 19921027
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: German
Patent (No,Kind,Date): DE 69230114 C0 19991111
AKUSTISCHES OBERFLAECHEWELLENFILTER (German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): DE 69230114 A 19921027
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: German
Patent (No,Kind,Date): DE 69216769 T2 19970507
AKUSTISCHER OBERFLAECHEWELLENFILTER (German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): DE 69216769 A 19921027
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: German
Patent (No,Kind,Date): DE 69230114 T2 20000210
AKUSTISCHES OBERFLAECHEWELLENFILTER (German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): DE 69230114 A 19921027
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: German
Patent (No,Kind,Date): DE 69216769 T3 20010426
AKUSTISCHER OBERFLAECHEWELLENFILTER (German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): DE 69216769 A 19921027
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: German
Patent (No,Kind,Date): DE 69216769 T4 20020314
AKUSTISCHER OBERFLAECHEWELLENFILTER (German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219

Applic (No,Kind,Date): DE 69216769 A 19921027
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: German
 Patent (No,Kind,Date): DE 69230114 T4 20000629
 AKUSTISCHES OBERFLAECHEWELLENFILTER (German)
 Patent Assignee: FUJITSU LTD (JP)
 Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
 TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
 Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
 19920219
 Applic (No,Kind,Date): DE 69230114 A 19921027
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 69216769	P	19970227	DE REF	CORRESPONDS TO (ENTSPRICHT)
			EP 541284 P 19970227	
DE 69216769	P	19970507	DE 8373	TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69216769	P	19980122	DE 8363	OPPOSITION AGAINST THE PATENT (EINSPRUCH GEGEN DAS PATENT ERHOBEN)
DE 69216769	P	20000921	DE 8366	RESTRICTED MAINTAINED AFTER OPPOSITION PROCEEDINGS (NACH DURCHFUEHRUNG DES EINSPRUCHSVERFAHRENS BESCHRAENKT AUFRECHTERHALTEN)
DE 69216769	P	20010426	DE 8374	TRANSLATION OF EP PATENT CHANGED DURING OPPOSITION WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER IM EINSPRUCHSVERFAHREN GEAENDERTEN EP PATENTSCHRIFT IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69216769	P	20020314	DE 8375	TRANSLATION OF CORRECTED EP PATENT DOCUMENT WAS RECEIVED AND HAS BEEN PUBLISHED (BERICHTIGTE UEBERSETZUNG DER EP PATENTSCHRIFT IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69230114	P	19991111	DE REF	CORRESPONDS TO (ENTSPRICHT)
			EP 732806 P 19991111	
DE 69230114	P	20000210	DE 8373	TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69230114	P	20000629	DE 8375	TRANSLATION OF CORRECTED EP PATENT DOCUMENT WAS RECEIVED AND HAS BEEN PUBLISHED (BERICHTIGTE UEBERSETZUNG DER EP PATENTSCHRIFT IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69230114	P	20001026	DE 8364	NO OPPOSITION DURING TERM OF OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541284 A1 19930512
 SURFACE ACOUSTIC WAVE FILTER (English; French; German)

Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): EP 92309830 A 19921027
Designated States: (National) DE; FR; GB; NL
IPC: * H03H-009/64
Derwent WPI Acc No: ; G 93-154224
Language of Document: English
Patent (No,Kind,Date): EP 732806 A2 19960918
SURFACE-ACOUSTIC-WAVE FILTER (English; French; German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): EP 92309830 A3 19921027; JP 91281694 A
19911028; JP 9232270 A 19920219
Applic (No,Kind,Date): EP 96108331 A 19921027
Designated States: (National) DE; FR; GB
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English
Patent (No,Kind,Date): EP 928064 A2 19990707
SURFACE-ACOUSTIC-WAVE FILTER (English; French; German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): EP 96108331 A3 19921027; JP 91281694 A
19911028; JP 9232270 A 19920219
Applic (No,Kind,Date): EP 99100121 A 19921027
Designated States: (National) DE; FR; GB
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English
Patent (No,Kind,Date): EP 732806 A3 19961023
Patent Assignee: FUJITSU LTD
Priority (No,Kind,Date): EP 92309830 A3 19921027; JP 91281694 A
19911028; JP 9232270 A 19920219
Applic (No,Kind,Date): EP 96108331 A 19921027
Designated States: (National) DE; FR; GB; NL
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English; French; German
Patent (No,Kind,Date): EP 928064 A3 19990901
SURFACE-ACOUSTIC-WAVE FILTER (English; French; German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): EP 96108331 A3 19921027; JP 91281694 A
19911028; JP 9232270 A 19920219
Applic (No,Kind,Date): EP 99100121 A 19921027
Designated States: (National) DE; FR; GB
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English
Patent (No,Kind,Date): EP 541284 B1 19970115
SURFACE ACOUSTIC WAVE FILTER (English; French; German)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 9232270 A 19920219; JP 91281694 A

19911028
 Applic (No,Kind,Date): EP 92309830 A 19921027
 Designated States: (National) DE; FR; GB; NL
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: English
 Patent (No,Kind,Date): EP 732806 B1 19991006
 SURFACE-ACOUSTIC-WAVE FILTER (English; French; German)
 Patent Assignee: FUJITSU LTD (JP)
 Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
 Priority (No,Kind,Date): EP 92309830 A3 19921027; JP 91281694 A 19911028; JP 9232270 A 19920219
 Applic (No,Kind,Date): EP 96108331 A 19921027
 Designated States: (National) DE; FR; GB
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: English
 Patent (No,Kind,Date): EP 541284 B2 20000719
 SURFACE ACOUSTIC WAVE FILTER (English; French; German)
 Patent Assignee: FUJITSU LTD (JP)
 Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
 Priority (No,Kind,Date): JP 9232270 A 19920219; JP 91281694 A 19911028
 Applic (No,Kind,Date): EP 92309830 A 19921027
 Designated States: (National) DE; FR; GB; NL
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 541284	P	19911028	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				JP 91281694 A	19911028
EP 541284	P	19920219	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
				JP 9232270 A	19920219
EP 541284	P	19921027	EP AE	EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
				EP 92309830 A	19921027
EP 541284	P	19930512	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT	(IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)
				DE FR GB NL	
EP 541284	P	19930512	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT	(VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 541284	P	19930714	EP 17P	REQUEST FOR EXAMINATION FILED	(PRUEFUNGSANTRAG GESTELLT)
				930514	
EP 541284	P	19950503	EP 17Q	FIRST EXAMINATION REPORT	(ERSTER PRUEFUNGSBESCHIED)
				950321	
EP 541284	P	19960918	EP AH	DIVISIONAL APPLICATION (ART. 76) IN:	(TEILANMELDUNG (ART. 76) IN:)
				EP 732806 P	
EP 541284	P	19961204	EP DX	MISCELLANEOUS: (DELETED)	

(DIVERSES: (GELOESCHT))

EP 541284	P	19970115	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)
			DE FR GB NL	
EP 541284	P	19970115	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 541284	P	19970227	EP REF	CORRESPONDS TO: (ENTSPRICHT)
		DE 69216769	P	19970227
EP 541284	P	19970509	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 541284	P	19970701	EP NLV1	NL: LAPSED OR ANNUED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT; NO LEGAL EFFECT FROM THE DATE OF (NL: WIRKUNG IN NL NICHT EINGETRETEN (ART. 29P UND 29M NL PATG.))
EP 541284	P	19971210	EP 26	OPPOSITION FILED (EINSPRUCH EINGELEGT)
		971015	SIEMENS MATSUSHITA COMPONENTS GMBH & CO. KG	
EP 541284	P	19980415	EP R26	OPPOSITION FILED (CORRECTION) (EINSPRUCH EINGELEGT (KORR.))
		971015	SIEMENS MATSUSHITA COMPONENTS GMBH & CO. KG	
EP 541284	P	19990707	EP AH	DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:)
		EP 928064	P	
EP 541284	P	19991006	EP AH	DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:)
		EP 732806	P	
EP 541284	P	20000719	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A CORR. PATENT SPECIFICATION: (IN EINER KORR. PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)
			DE FR GB NL	
EP 541284	P	20000719	EP B2	NEW PATENT SPECIFICATION (NEUE PATENTSCHRIFT)
EP 541284	P	20000719	EP 27A	MAINTENANCE AS AMENDED (AUFRECHTERHALTUNG IN GEAENDERTEM UMFANG)
		20000719		
EP 541284	P	20001004	GB 727/REG	APPLICATION MADE FOR AMENDMENT OF SPECIFICATION (SECT. 27/1977) (APPL. MADE FOR AMENDMENT OF SPEC. (SECT. 27/1977))
EP 541284	P	20001020	EP ET3	FR: TRANSLATION FILED ** DECISION CONCERNING OPPOSITION (FR: TRADUCTION A ETE REMISE ** DECISION CONCERNANT L'OPPOSITION)
EP 541284	P	20001115	GB 727A/REG	APPLICATION FOR AMENDMENT OF SPECIFICATION NOW OPEN TO OPPOSITION (SECT. 27/1977) (APPL. FOR AMENDMENT OF SPEC. NOW OPEN TO OPPOSITION (SECT. 27/1977))
EP 541284	P	20010411	GB 727B/REG	CASE DECIDED BY THE COMPTROLLER ** SPECIFICATION AMENDED (SECT. 27/1977) (CASE DEC. BY THE COMPTR. ** SPEC. AMENDED (SECT. 27/1977))
EP 732806	P	19911028	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
		JP 91281694	A	19911028
EP 732806	P	19920219	EP AA	PRIORITY (PATENT

APPLICATION) (PRIORITAET (PATENTANMELDUNG))

JP 9232270 A 19920219

EP 732806 P 19921027 EP AA DIVIDED OUT OF
(AUSSCHIEDUNG AUS)

EP 92309830 A3 19921027

EP 732806 P 19921027 EP AE EP-APPLICATION
(EUROPAEISCHE ANMELDUNG)

EP 96108331 A 19921027

EP 732806 P 19960918 EP AC DIVISIONAL APPLICATION (ART.
76) OF: (TEILANMELDUNG (ART. 76) AUS:)

EP 541284 P

EP 732806 P 19960918 EP AK DESIGNATED CONTRACTING
STATES IN AN APPLICATION WITHOUT SEARCH
REPORT: (IN EINER ANMELDUNG OHNE
RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)

DE FR GB

EP 732806 P 19960918 EP A2 PUBLICATION OF APPLICATION
WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER
ANMELDUNG OHNE RECHERCHENBERICHT)

EP 732806 P 19961023 EP AK DESIGNATED CONTRACTING
STATES IN A SEARCH REPORT: (IN EINEM
RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)

DE FR GB NL

EP 732806 P 19961023 EP A3 SEPARATE PUBLICATION OF THE
SEARCH REPORT (ART. 93) (GESONDERTE
VEROEFFENTLICHUNG DES RECHERCHENBERICHTS
(ART. 93))

EP 732806 P 19970312 EP RBV DESIGNATED CONTRACTING
STATES (CORRECTION) (BENANNT
VERTRAGSSTAATEN (KORR.))

DE FR GB

EP 732806 P 19970326 EP 17P REQUEST FOR EXAMINATION
FILED (PRUEFUNGSANTRAG GESTELLT)

970128

EP 732806 P 19980107 EP 17Q FIRST EXAMINATION REPORT
(ERSTER PRUEFUNGSBESCHIED)

971119

EP 732806 P 19990707 EP AH DIVISIONAL APPLICATION (ART.
76) IN: (TEILANMELDUNG (ART. 76) IN:)

EP 928064 P

EP 732806 P 19991006 EP AC DIVISIONAL APPLICATION (ART.
76) OF: (TEILANMELDUNG (ART. 76) AUS:)

EP 541284 P

EP 732806 P 19991006 EP AHF DIVISIONAL APPLICATION (ART.
76) IN: (TEILANMELDUNG (ART. 76) IN:)

928064

EP 99100121 A 19990105

EP 732806 P 19991006 EP AK DESIGNATED CONTRACTING
STATES MENTIONED IN A PATENT SPECIFICATION:
(IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT
VERTRAGSSTAATEN)

DE FR GB

EP 732806 P 19991006 EP B1 PATENT SPECIFICATION
(PATENTSCHRIFT)

EP 732806 P 19991111 EP REF CORRESPONDS TO:
(ENTSPRICHT)

DE 69230114 P 19991111

EP 732806 P 20000204 EP ET FR: TRANSLATION FILED (FR:
TRADUCTION A ETE REMISE)

EP 732806 P 20000920 EP 26N NO OPPOSITION FILED (KEIN
EINSPRUCH EINGELEGT)

EP 732806 P 20001206 GB 727/REG APPLICATION MADE FOR
AMENDMENT OF SPECIFICATION (SECT. 27/1977) (

APPL. MADE FOR AMENDMENT OF SPEC. (SECT. 27/1977))

EP 732806 P 20010131 GB 727A/REG APPLICATION FOR AMENDMENT OF SPECIFICATION NOW OPEN TO OPPOSITION (SECT. 27/1977) (APPL. FOR AMENDMENT OF SPEC. NOW OPEN TO OPPOSITION (SECT. 27/1977))

EP 732806 P 20010516 GB 727B/REG CASE DECIDED BY THE COMPTROLLER ** SPECIFICATION AMENDED (SECT. 27/1977) (CASE DEC. BY THE COMPTR. ** SPEC. AMENDED (SECT. 27/1977))

EP 928064 P 19911028 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 928064 P 19920219 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 928064 P 19921027 EP AA DIVIDED OUT OF (AUSSCHIEDUNG AUS)

EP 928064 P 19921027 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)

EP 928064 P 19990707 EP AC DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:)

EP 928064 P 19990707 EP AC DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:)

EP 928064 P 19990707 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)

EP 928064 P 19990707 EP A2 PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)

EP 928064 P 19990825 EP RIC1 CLASSIFICATION (CORRECTION) (KLASSIFIKATION (KORR.))

EP 928064 P 19990901 EP AK DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: (IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)

EP 928064 P 19990901 EP A3 SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))

EP 928064 P 20000322 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)

EP 928064 P 20010905 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED)

EP 928064 P 20020123 EP RAHF DIVISIONAL APPLICATION (ART. 76) IN: (CORRECTION) (TEILANMELDUNG (ART. 76) IN: (KORR.))

EP 928064 P 20020123 EP RAHF DIVISIONAL APPLICATION (ART. 76) IN: (CORRECTION) (TEILANMELDUNG (ART. 76) IN: (KORR.))

JAPAN (JP)

Patent (No,Kind,Date): JP 5183380 A2 19930723
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD
Author (Inventor): SATO YOSHIO; IGATA OSAMU; MIYASHITA TSUTOMU;
MATSUDA TAKASHI; TAKAMATSU MITSUO
Priority (No,Kind,Date): JP 91281694 A1 19911028
Applic (No,Kind,Date): JP 9232270 A 19920219
IPC: * H03H-009/64
JAPIO Reference No: ; 170599E000145
Language of Document: Japanese

Patent (No,Kind,Date): JP 10093375 A2 19980410
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD
Author (Inventor): SATO YOSHIO; IGATA OSAMU; MIYASHITA TSUTOMU;
MATSUDA TAKASHI; TAKAMATSU MITSUO
Priority (No,Kind,Date): JP 97179936 A 19970704; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 97179936 A 19970704
IPC: * H03H-009/145; H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese

Patent (No,Kind,Date): JP 10093376 A2 19980410
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD
Author (Inventor): SATO YOSHIO; IGATA OSAMU; MIYASHITA TSUTOMU;
MATSUDA TAKASHI; TAKAMATSU MITSUO
Priority (No,Kind,Date): JP 97179935 A 19970704; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 97179935 A 19970704
IPC: * H03H-009/145; H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese

Patent (No,Kind,Date): JP 10126212 A2 19980515
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD
Author (Inventor): SATO YOSHIO; IGATA OSAMU; MIYASHITA TSUTOMU;
MATSUDA TAKASHI; TAKAMATSU MITSUO
Priority (No,Kind,Date): JP 97179937 A 19970704; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 97179937 A 19970704
IPC: * H03H-009/64; H03H-009/145
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese

Patent (No,Kind,Date): JP 2000174586 A2 20000623
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD
Author (Inventor): SATO YOSHIO; IGATA OSAMU; MIYASHITA TSUTOMU;
MATSUDA TAKASHI; TAKAMATSU MITSUO
Priority (No,Kind,Date): JP 91281694 A 19911028
Applic (No,Kind,Date): JP 200017470 A 19920219
IPC: * H03H-009/64; H03H-009/145
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese

Patent (No,Kind,Date): JP 2800905 B2 19980921
Priority (No,Kind,Date): JP 9232270 A 19920219; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 9232270 A 19920219
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Language of Document: Japanese

Patent (No,Kind,Date): JP 3152418 B2 20010403
Priority (No,Kind,Date): JP 97179936 A 19970704; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 97179936 A 19970704
IPC: * H03H-009/145
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese
Patent (No,Kind,Date): JP 3152419 B2 20010403
Priority (No,Kind,Date): JP 97179937 A 19970704; JP 91281694 A
19911028
Applic (No,Kind,Date): JP 97179937 A 19970704
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9700559 B1 19970113,
SAW FILTER (English)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATO YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
CHUTOMU (JP); MACHUTA TAKASHI (JP); TAKAMACHU MICHUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): KR 9219934 A 19921028
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5559481 A 19960924
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): JP 91281694 A 19911028; JP 9232270 A
19920219
Applic (No,Kind,Date): US 965774 A 19921023
National Class: * 333143000; 333194000; 310313000R
IPC: * H03H-009/64
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English
Patent (No,Kind,Date): US 5631612 A 19970520
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD (JP)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): US 369492 A 19950106; JP 91281694 A
19911028; JP 9232270 A 19920219; US 965774 A1 19921023
Applic (No,Kind,Date): US 369492 A 19950106
Addnl Info: 5559481 19960924 Patented
National Class: * 333193000; 333133000; 310313000R
IPC: * H03H-009/00
Derwent WPI Acc No: * G 93-154224; G 96-414762
JAPIO Reference No: * 170599E000145
Language of Document: English
Patent (No,Kind,Date): US 37375 E1 20010918
SURFACE ACOUSTIC WAVE FILTER (English)
Patent Assignee: FUJITSU LTD (US)
Author (Inventor): SATOH YOSHIO (JP); IKATA OSAMU (JP); MIYASHITA
TSUTOMU (JP); MATSUDA TAKASHI (JP); TAKAMATSU MITSUO (JP)
Priority (No,Kind,Date): US 158074 A 19980922; JP 91281694 A

19911028; JP 9232270 A 19920219; US 965774 A5 19921023
 Applic (No,Kind,Date): US 158074 A 19980922
 National Class: * 333193000; 333133000; 333194000; 310313000R
 IPC: * H03H-009/64
 Derwent WPI Acc No: * G 93-154224; G 96-414762
 JAPIO Reference No: * 170599E000145
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 37375	E	19911028	US AA	PRIORITY (PATENT)
			JP 91281694 A	19911028
US 37375	E	19920219	US AA	PRIORITY (PATENT)
			JP 9232270 A	19920219
US 37375	E	19921023	US AA	PRIORITY
			US 965774 A5	19921023
US 37375	E	19980922	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 158074 A	19980922
US 37375	E	20010918	US E1	REISSUE (PRE-GRANT)
US 5559481	P	19911028	US AA	PRIORITY (PATENT)
			JP 91281694 A	19911028
US 5559481	P	19920219	US AA	PRIORITY (PATENT)
			JP 9232270 A	19920219
US 5559481	P	19921023	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 965774 A	19921023
US 5559481	P	19921023	US AS02	ASSIGNMENT OF ASSIGNOR'S
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			NAKAHARA-KU KAWASAKI-SHI, KANAGAWA 211, JAPA	
			; SATOH, YOSHIO : 19921020; IKATA, OSAMU :	
			19921020; MIYASHITA, TSUTOMU : 19921020;	
			MATSUDA, TAKASHI : 19921020; TAKAMATSU :	
			19921020	
US 5559481	P	19960924	US A	PATENT
US 5559481	P	19970204	US CC	CERTIFICATE OF CORRECTION
US 5559481	P	19981124	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			980922	
US 5631612	P	19911028	US AA	PRIORITY (PATENT)
			JP 91281694 A	19911028
US 5631612	P	19920219	US AA	PRIORITY (PATENT)
			JP 9232270 A	19920219
US 5631612	P	19921023	US AA	PRIORITY
			US 965774 A1	19921023
US 5631612	P	19950106	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 369492 A	19950106
US 5631612	P	19970520	US A	PATENT
US 5631612	P	19970902	US CC	CERTIFICATE OF CORRECTION
US 5631612	P	19990706	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			19990520	
US 5631612	P	20011218	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20010810	

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